



11 Publication number:

0 564 739 A3

(P)

EUROPEAN PATENT APPLICATION

21 Application number: 92309016.1

(1) Int. Cl.5: **C07K** 7/22, C07K 7/56, A61K 37/24

② Date of filing: 02.10.92

3 Priority: 20.10.91 IL 99628

Date of publication of application: 13.10.93 Bulletin 93/41

Designated Contracting States:
 AT BE CH DE DK ES FR GB GR IE IT LI LU MC
 NL PT SE

Date of deferred publication of the search report: 26.04.95 Bulletin 95/17

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- Backbone cyclic peptides, processes for their preparation and pharmaceutical compositions containing them.
- The present invention is concerned with biologically active, backbone-cyclized peptides especially substance P analogs to processes for their preparation and to pharmaceutical compositions containing them.

 More particularly, the peptides of the invention are of general formulae (I) and (II):

$$H_2N - \{A^1A^1\}_d - C - N - CH - C - N - \{AA\}_e - C - N - CH - C - E$$
 (II)

wherein the substituents and circled line are defined in the Specification.

EUROPEAN SEARCH REPORT

Application Number EP 92 30 9016

Category	DOCUMENTS CONS Citation of document with	CLASSIFICATION OF THE		
Category	of relevant p	assages	Relevant to claim	APPLICATION (bt.CL5)
o,x	CHEMICAL ABSTRACTS, vol. 114, no. 11, 18 March 1991, Columbus, Ohio, US; abstract no. 102801b, BYK.G. ET AL. 'A new route to prepare conformationally restricted cyclic peptides as demonstrated by a potent NK-1 selective substance P analog' page 826; * abstract * & PEPT.: CHEM.,STRUCT.BIOL.,PROC.AM.PEPT.S YMP.,11TH.,, 1990 pages 984 - 985 BYK G. ET AL.		1,2,33-36	C07K7/22 C07K7/56 A61K37/24
	11 November 1991, (abstract no. 20855; GILON, CHAIM ET AL cyclic tachykinins conformationally re page 1083; column (* abstract *	. ['] Backbone-to-end : a new approach to estricted peotides'	1-3, 33-36	TECHNICAL FIELDS SEARCHED (Int.Cl.5) C07K
	CHEMICAL ABSTRACTS, vol. 117, no. 21, 23 November 1992, Columbus, Ohio, US; abstract no. 205809b, GILON C. ET AL. 'SAR studies of cycloseptide: Effects of cyclization and charge at position 6' page 170; column LH; * abstract * PEPT.: CHEM.BIOL., PROC.AM.PEPT.SYMP., 12TH, 1992 pages 476 - 477 *meeting date June 1990*		1-3, 33-36	
	The present search report has b	een drawn up for all claims		
	Place of search	Date of completion of the search		Exercises
ı	MUNICH	20 February 1995	Def	fner, C-A
CATEGORY OF CITED DOCUMENTS X: particularly relevant if taken alone Y: particularly relevant if combined with another document of the same category A: technological background O: non-written disclosure P: intermediate document		underlying the iment, but publishe the application other reasons	invention shed on, or	



EUROPEAN SEARCH REPORT

Application Number EP 92 30 9016

D, X	Citation of document with indication of relevant passages BIOPOLYMERS,	u, waere appropriate,	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.CL5)
D, X	RTOPOL YMERS			
- ,			1-3,	
	vol 21 no 6 May 1001			
	vol.31, no.6, May 1991		33-36	
	pages 745 - 750			
	GILON C. ET AL. Backbon	ne Cvclization: A		
	New Method for Conferri	na Conformational		
	Constraint on Peptides'	ng contormational		
	constraint on Peptides.			
	* figures 4,8 *			
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	The present search report has been draw	n up for all claims		
Place of search		Date of completion of the search	T	Examiner
MUNICH		20 February 1995	Deft	fner, C-A
				
	CATEGORY OF CITED DOCUMENTS	T : theory or principle E : earlier patent docu	underlying the i	nvention
X : part	icularly relevant if taken alone	E : earlier patent docu after the filing dat	ment, but publis e	nvention hed on, or
X : part Y : part	icularly relevant if taken alone icularly relevant if combined with another	E : earlier patent docu after the filing dat D : document cited in	ment, but publis e the application	nvention hed on, or
X : part Y : part docu A : tech	icularly relevant if taken alone	E : earlier patent docu after the filing dat	ment, but publis e the application other reasons	nvention hed on, or